# CLASSIFIED

# Vol. 99, August 2005-May 2006

# **AUTHOR INDEX**

- Anthony, Holly Garrett, and Amy J. Hackenberg. Making Quilts without Sewing: Investigating Planar Symmetries in Southern Quilts. Nov. 2005, 270–76.
- Benjamin, Arthur T., and Jennifer J. Quinn. Revisiting Fibonacci and Related Sequences. Dec. 2005/Jan. 2006, 357-61.
- Beseler, Susan. The Three-Point Shoot-Out: The Logic of Hypothesis Testing. Apr. 2006, 582–87.
- Boognl, Mary A. A Hands-On Approach to Teaching Composition of Functions to a Diverse Population. March 2006, 516–20.
- Borkovitz, Debra K. The Name Game: Exploring Random Permutations. Oct. 2005, 196–204.
- Bossé, Michael J. Data-Driven Mathematics Investigations on "Curved Data." Aug. 2005, 46–54.
- Bradley, David M., and Tod L Shockey. An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.
- Brown, Elizabeth M., and Elizabeth Jones. Understanding Conic Sections Using Alternate Graph Paper. Dec. 2005/Jan. 2006, 322–27.
- Calzada, Maria E., and Stephen M. Scariano. A Natural Bridge from Algebra and Geometry to Trigonometry. Feb. 2006, 450–58.
- Campbell, William E., Joyce C. Kemp, and Joan H. Zia. Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. 2006, 406–13.

- Caniglia, Joanne C., and Barbara B. Leapard. Conic Sections: Draw It, Write It, Do It. Oct. 2005, 152–55.
- Ciesla, Barbara A., and John W. Watson. Finding Complex Roots: Can You Trust Your Calculator? Dec. 2005/Jan. 2006, 366–71.
- Clausen, Mary C. Did You "Code"? Nov. 2005, 260-63.
- Comstock, Jocelyne M., Seán P. Madden, and James P. Downing. Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.
- Craig, Carolyn, and Julianna Csongor.Say What You Mean and Mean What You Say. Oct. 2005, 181–83.
- Crannell, Annalisa, Marc Frantz, Dan Maki, and Ted Hodgson. Hands-On Perspective. Apr. 2006, 554–59.
- Csongor, Julianna, and Carolyn Craig. Say What You Mean and Mean What You Say. Oct. 2005, 181–83.
- Davis, Jon D. Connecting Procedural and Conceptual Knowledge of Functions. Aug. 2005, 36–39.
- Donovan, John E., II. Using the Dynamic Power of Microsoft Excel to Stand on the Shoulders of Giants. Dec. 2005/Jan. 2006, 334–39.
- Downing, James P., Seán P. Madden, and Jocelyne M. Comstock. Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.
- Fernández, Eileen. Understanding Functions without Using the Vertical Line Test. Sept. 2005, 96–100.
- Fernández, Maria L. Teaching about Functions through Motion in Real Time. Feb. 2006, 430–37.

- Fisher, Sara P., and Christopher Hartmann. Math through the Mind's Eye. Nov. 2005, 246–50.
- Fox, Thomas B. Transformations on Data Sets and Their Effects on Descriptive Statistics. Oct. 2005, 208–13.
- Franklin, Christine A., and Madhuri S. Mulekar. Is Central Park Warming? May 2006, 600–605.
- Frantz, Marc, Annalisa Crannell, Dan Maki, and Ted Hodgson. Hands-On Perspective. Apr. 2006, 554–59.
- Franzblau, Deborah S. How Do We Know That's the Minimum? Aug. 2005, 18–24.
- Fromold Jr., Albert T. Calculus Technique of Integration by Parts, Correlated with a Geometric Picture. Aug. 2005, 62–63.
- Gamble, Marvin. Teaching Logarithms Day One. Aug. 2005, 66–67.
- Genovese, Michelle J. You've Heard of Cramer's Rule, Now Try Comer's: An Alternative Approach to Finding Determinants. Feb. 2006, 446-49
- Gibbs, Richard A., and William J.
  O'Donnell. Good Will Hunting Meets
  Graphing Calculators and CAS. Oct.
  2005, 218–22.
- Gibson, Michelle, and Timothy G. Thomas. Quilt Blocks: Writing in the Geometry Classroom. Sept. 2005, 108–11.
- Gluchoff, Alan. Hands-On Fractals and the Unexpected in Mathematics. Apr. 2006, 570-75.
- Goetz, Albert. Using Open-Ended Problems for Assessment. Aug. 2005, 12–17.

# CLASSIFIED

# Vol. 99, August 2005-May 2006

# **AUTHOR INDEX**

- Anthony, Holly Garrett, and Amy J. Hackenberg. Making Quilts without Sewing: Investigating Planar Symmetries in Southern Quilts. Nov. 2005, 270–76.
- Benjamin, Arthur T., and Jennifer J. Quinn. Revisiting Fibonacci and Related Sequences. Dec. 2005/Jan. 2006, 357-61.
- Beseler, Susan. The Three-Point Shoot-Out: The Logic of Hypothesis Testing. Apr. 2006, 582–87.
- Boognl, Mary A. A Hands-On Approach to Teaching Composition of Functions to a Diverse Population. March 2006, 516–20.
- Borkovitz, Debra K. The Name Game: Exploring Random Permutations. Oct. 2005, 196–204.
- Bossé, Michael J. Data-Driven Mathematics Investigations on "Curved Data." Aug. 2005, 46–54.
- Bradley, David M., and Tod L Shockey. An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.
- Brown, Elizabeth M., and Elizabeth Jones. Understanding Conic Sections Using Alternate Graph Paper. Dec. 2005/Jan. 2006, 322–27.
- Calzada, Maria E., and Stephen M. Scariano. A Natural Bridge from Algebra and Geometry to Trigonometry. Feb. 2006, 450–58.
- Campbell, William E., Joyce C. Kemp, and Joan H. Zia. Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. 2006, 406–13.

- Caniglia, Joanne C., and Barbara B. Leapard. Conic Sections: Draw It, Write It, Do It. Oct. 2005, 152–55.
- Ciesla, Barbara A., and John W. Watson. Finding Complex Roots: Can You Trust Your Calculator? Dec. 2005/Jan. 2006, 366–71.
- Clausen, Mary C. Did You "Code"? Nov. 2005, 260-63.
- Comstock, Jocelyne M., Seán P. Madden, and James P. Downing. Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.
- Craig, Carolyn, and Julianna Csongor.Say What You Mean and Mean What You Say. Oct. 2005, 181–83.
- Crannell, Annalisa, Marc Frantz, Dan Maki, and Ted Hodgson. Hands-On Perspective. Apr. 2006, 554–59.
- Csongor, Julianna, and Carolyn Craig. Say What You Mean and Mean What You Say. Oct. 2005, 181–83.
- Davis, Jon D. Connecting Procedural and Conceptual Knowledge of Functions. Aug. 2005, 36–39.
- Donovan, John E., II. Using the Dynamic Power of Microsoft Excel to Stand on the Shoulders of Giants. Dec. 2005/Jan. 2006, 334–39.
- Downing, James P., Seán P. Madden, and Jocelyne M. Comstock. Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.
- Fernández, Eileen. Understanding Functions without Using the Vertical Line Test. Sept. 2005, 96–100.
- Fernández, Maria L. Teaching about Functions through Motion in Real Time. Feb. 2006, 430–37.

- Fisher, Sara P., and Christopher Hartmann. Math through the Mind's Eye. Nov. 2005, 246–50.
- Fox, Thomas B. Transformations on Data Sets and Their Effects on Descriptive Statistics. Oct. 2005, 208–13.
- Franklin, Christine A., and Madhuri S. Mulekar. Is Central Park Warming? May 2006, 600–605.
- Frantz, Marc, Annalisa Crannell, Dan Maki, and Ted Hodgson. Hands-On Perspective. Apr. 2006, 554–59.
- Franzblau, Deborah S. How Do We Know That's the Minimum? Aug. 2005, 18–24.
- Fromold Jr., Albert T. Calculus Technique of Integration by Parts, Correlated with a Geometric Picture. Aug. 2005, 62–63.
- Gamble, Marvin. Teaching Logarithms Day One. Aug. 2005, 66–67.
- Genovese, Michelle J. You've Heard of Cramer's Rule, Now Try Comer's: An Alternative Approach to Finding Determinants. Feb. 2006, 446-49
- Gibbs, Richard A., and William J.
  O'Donnell. Good Will Hunting Meets
  Graphing Calculators and CAS. Oct.
  2005, 218–22.
- Gibson, Michelle, and Timothy G. Thomas. Quilt Blocks: Writing in the Geometry Classroom. Sept. 2005, 108–11.
- Gluchoff, Alan. Hands-On Fractals and the Unexpected in Mathematics. Apr. 2006, 570-75.
- Goetz, Albert. Using Open-Ended Problems for Assessment. Aug. 2005, 12–17.

- Goldenberg, E. Paul. How Does One Know if a Number Is Divisible by 17? March 2006, 502–5.
- Golzy, John B., and Deborah Moore-Russo. Helping Students Connect Functions and Their Representations. Oct. 2005, 156–60.
- Gould, S. Louise. The Tellem Weavers Meet the Graphing Calculator. Nov. 2005, 230–36.
- Groth, Randall E. Linking Theory and Practice in Teaching Geometry. Aug. 2005, 27–30.
- Hackenberg, Amy J., and Holly Garrett Anthony. Making Quilts without Sewing: Investigating Planar Symmetries in Southern Quilts. Nov. 2005, 270–76.
- Harkness, Shelly Sheats. Geometry of Transformations: Teacher and Unit Under Construction. Sept. 2005, 88–92.
- Hartmann, Christopher, and Sara P. Fisher. Math through the Mind's Eye. Nov. 2005, 246–50.
- Haznedar, Asena, and Marsha Hurwitz.
  Using Similarity to Derive a Formula for the Distance from a Point to a Line. Aug. 2005, 61–62.
- Heller, Brad, and Marshall Lassak. The Where, Why, and How of Solving  $a^x = \log_a x$ . May 2006, 651–53.
- Herman, Marlena. Introducing Parametric Equations through Graphing Calculator Explorations. May 2006, 637–43.
- Herzig, Abbe H. Goals for Achieving Diversity in Mathematics Classrooms. Nov. 2005, 253–59.
- Hickman, Aaron, and Angela L. E. Walmsley. A Study of Note Taking and Its Impact on Student Perception of Use in a Geometry Classroom. May 2006, 614–21.
- Hodgson, Ted, Marc Frantz, Annalisa Crannell, and Dan Maki. Hands-On Perspective. Apr. 2006, 554–59.
- Horak, Virginia M. Biology as a Source for Algebra Equations: Insects. Aug. 2005, 55–59.
- ——. Biology as a Source for Algebra Equations: The Heart. Nov. 2005, 296–301.
- Hurwitz, Marsha, and Asena Haznedar.
  Using Similarity to Derive a Formula
  for the Distance from a Point to a
  Line. Aug. 2005, 61-62.

- Johnson, Iris DeLoach. Grandfather Tang Goes to High School. March 2006, 522–26.
- Johnson, Iris DeLoach, and Heather Whittaker. Interactive Geometry Software in the B.C. (Before Computers) Era. Oct. 2005, 170-76.
- Jones, Elizabeth, and Elizabeth M. Brown. Understanding Conic Sections Using Alternate Graph Paper. Dec. 2005/Jan. 2006, 322–27.
- Jones, MaryClara, and Hortensia Soto-Johnson. Rotations of the Regular Polyhedra. May 2006, 606-9.
- Kemp, Joyce C., William E. Campbell, and Joan H. Zia. Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. 2006, 406–13.
- Kobayashi, Yukio. Relations among Powers of 2, Combinations, and Symbolic Algebra. Apr. 2006, 577–78.
- Lassak, Marshall, and Brad Heller. The Where, Why, and How of Solving  $a^x = \log x$ . May 2006, 651–53.
- Leapard, Barbara B., and Joanne C. Caniglia. Conic Sections: Draw It, Write It, Do It. Oct. 2005, 152–55.
- Linn, Stacy L., and David K. Neal. Approximating Pi with the Golden Ratio. March 2006, 472–77.
- Lobo, Glen E. Two Useful Functions for Excel Grade Books. Apr. 2006, 566–69.
- Madden, Seán P., James P. Downing, and Jocelyne M. Comstock. Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.
- Maki, Dan, Marc Frantz, Annalisa Crannell, and Ted Hodgson. Hands-On Perspective. Apr. 2006, 554–59.
- Manouchehri, Azita, and Dennis St. John. From Classroom Discussions to Group Discourse. Apr. 2006, 544–51.
- Marrongelle, Karen A. Enhancing Meaning in Mathematics: Drawing on What Students Know about the Physical World. Oct. 2005, 162–69.
- Metz, John. Phone Trees. Apr. 2006, 578–79.
- Miller, Catherine M., and Tamara B. Veenstra. The Matrix Connection: Fibonacci and Inductive Proof. Dec. 2005/Jan. 2006, 328–33.

- Moore-Russo, Deborah, and John B. Golzy. Helping Students Connect Functions and Their Representations. Oct. 2005, 156–60.
- Moyer, Todd O. Non-Geometry Mathematics and The Geometer's Sketchpad. March 2006, 490–95.
- Mulekar, Madhuri S., and Christine A. Franklin. Is Central Park Warming? May 2006, 600–605.
- Nandor, M. J. Simple Recurrence Relations, Proper Guessing, and Closed-Form Solutions. Nov. 2005, 292–95.
- Neal, David K., and Stacy L. Linn. Approximating Pi with the Golden Ratio. March 2006, 472–77.
- O'Donnell, William J., and Richard A. Gibbs. Good Will Hunting Meets Graphing Calculators and CAS. Oct. 2005, 218–22.
- O'Neil, Michael O. Multiplying Polynomials. March 2006, 508-10.
- Ordinans, Joseph. Three by Three Systems: More than Just a Point. Feb. 2006, 419–23.
- Parker, Dennis. Partitioning the Interior of a Circle with Chords. Sept, 2005, 120–24.
- Posamentier, Alfred S. Trisecting the Circle: A Case for Euclidean Geometry. Feb. 2006, 414–18.
- Quinn, Jennifer J., and Arthur T. Benjamin. Revisiting Fibonacci and Related Sequences. Dec. 2005/Jan. 2006, 357-61.
- Raman, Manya, and Keith Weber. Key Ideas and Insights in the Context of Three High School Geometry Proofs. May 2006, 644–49.
- Rodrigues, Mariano (Rod). Sliders and Parameters Extend Interactive Software. May 2006, 627–31.
- Rogers, Douglas G. Things Fall Apart: A Recurrence of Tiling. Sept. 2005, 134–39.
- Rubel, Laurie H. Good Things Always Come in Threes: Three Cards, Three Prisoners, Three Doors. Feb. 2006, 401–5.
- Rule, Sean D. Trigonometry Saves Engineer's Time. March 2006, 484–86.

- Scariano, Stephen M., and Maria E. Calzada. A Natural Bridge from Algebra and Geometry to Trigonometry. Feb. 2006, 450–58.
- Schabel, Carmen. Using Statistics to Check on Elvis. Dec. 2005/Jan. 2006, 372–77.
- Shimizu, Jeanne, and Rose Mary Zbiek. Multiple Solutions: More Paths to an End or More Opportunities to Learn Mathematics. Nov. 2005, 279–87.
- Shockey, Tod L, and David M. Bradley. An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.
- Siegel, Steven. The Angles between the Sides of a Quadrilateral and Its Diagonals. May 2006, 653–55.
- Sobczyk, Jim. Exploring the Integral of 1/t. Sept. 2005, 102–7.
- Soto-Johnson, Hortensia, and MaryClara Jones. Rotations of the Regular Polyhedra. May 2006, 606–9.
- St. John, Dennis, and Azita Manouchehri. From Classroom Discussions to Group Discourse. Apr. 2006, 544–51.
- Stanton, Robert O. Proofs That Students Can Do. March 2006, 478–82.
- Stueben, Michael A. and Shane M. Torbert. Advice for Solving Equations. Apr. 2006, 538–42.
- Taylor, P. Mark. Trade in Your Pendulum for a Personal Spacecraft. March 2006, 470–71.
- Thomas, Timothy G., and Michelle Gibson. Quilt Blocks: Writing in the Geometry Classroom. Sept. 2005, 108–11.
- Tillema, Erik. Chinese Algebra: Using Historical Problems to Think About Current Curricula. Nov. 2005, 238–45.
- Torbert, Shane M., and Michael A. Stueben. Advice for Solving Equations. Apr. 2006, 538–42.
- Veenstra, Tamara B., and Catherine M. Miller. The Matrix Connection: Fibonacci and Inductive Proof. Dec. 2005/Jan. 2006, 328–33.
- Wade, William R. A Dialogue between Calculator and Algebra. Feb. 2006, 391–93.
- Walmsley, Angela L. E., and Aaron

- Hickman. A Study of Note Taking and Its Impact on Student Perception of Use in a Geometry Classroom. May 2006, 614–21.
- Wanko, Jeffrey J. Discovering Relationships Involving Baravelle Spirals. Feb. 2006, 394–400.
- ——. Tapping into Trapezoids. Oct. 2005, 190–95.
- Watson, John W., and Barbara A. Ciesla. Finding Complex Roots: Can You Trust Your Calculator? Dec. 2005/Jan. 2006. 366–71.
- Weber, Keith, and Manya Raman. Key Ideas and Insights in the Context of Three High School Geometry Proofs. May 2006, 644–49.
- Wei, Shiyuan (Steve). Solving Absolute Value Equations Algebraically and Geometrically. Aug. 2005, 72–74.
- Whittaker, Heather, and Iris DeLoach Johnson. Interactive Geometry Software in the B.C. (Before Computers) Era. Oct. 2005, 170–76.
- Wong, Michael. The Human Body's Built-In Range Finder: The Thumb Method of Indirect Distance Measurement. May 2006, 622–26.
- Zbiek, Rose Mary, and Jeanne Shimizu. Multiple Solutions: More Paths to an End or More Opportunities to Learn Mathematics. Nov. 2005, 279-87.
- Zia, Joan H., William E. Campbell, and Joyce C. Kemp. Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. 2006, 406–13.

# **CLASSIFIED INDEX**

#### Algebra/Aigebraic Thinking

- Advice for Solving Equations. Apr. 2006, 538-42.
- Biology as a Source for Algebra Equations: The Heart. Nov. 2005, 296–301.
- Biology as a Source for Algebra Equations: Insects. Aug. 2005, 55–59.
- Connecting Procedural and Conceptual Knowledge of Functions. Aug. 2005, 36–39.
- Data-Driven Mathematics Investigations on "Curved Data." Aug. 2005, 46-54.
- A Dialogue between Calculator and Algebra. Feb. 2006, 391–93.
- Did You "Code"? Nov. 2005, 260-63.

- An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.
- Finding Complex Roots: Can You Trust Your Calculator? Dec. 2005/Jan. 2006, 366-71.
- Good Things Always Come in Threes: Three Cards, Three Prisoners, Three Doors. Feb. 2006, 401–5.
- Helping Students Connect Functions and Their Representations. Oct. 2005, 156-60.
- The Matrix Connection: Fibonacci and Inductive Proof. Dec. 2005/Jan. 2006, 328–33.
- Multiplying Polynomials. March 2006, 508–10.
- Non-Geometry Mathematics and The Geometer's Sketchpad. March 2006, 490–95.
- Relations among Powers of 2, Combinations, and Symbolic Algebra. Apr. 2006, 577–78.
- Solving Absolute Value Equations Algebraically and Geometrically. Aug. 2005, 72–74.
- Teaching about Functions through Motion in Real Time. Feb. 2006, 430–37.
- Teaching Logarithms Day One. Aug. 2005, 66-67.
- Technology Tips. Aug. 2005, 68-70.
- Three by Three Systems: More than Just a Point. Feb. 2006, 419-23.
- The Where, Why, and How of Solving  $a^x = \log_a x$ . May 2006, 651–53.
- You've Heard of Cramer's Rule, Now Try Comer's: An Alternative Approach to Finding Determinants. Feb. 2006, 446–49.

#### Assessment

- Projects. Sept. 2005, 142. Using Open-Ended Problems for Assess-
- ment. Aug. 2005, 12–17.

#### Calculus/Precalculus

- Calculus Technique of Integration by Parts, Correlated with a Geometric Picture. Aug. 2005, 62–63.
- Exploring the Integral of 1/t. Sept. 2005, 102–7.
- Good Will Hunting Meets Graphing Calculators and CAS. Oct. 2005, 218–22.
- Mathematical Lens. Nov. 2005, 251–52. Non-Geometry Mathematics and The
  - Geometer's Sketchpad. March 2006, 490–95.

#### Combinatorics

The Name Game: Exploring Random Permutations. Oct. 2005, 196–204.

Phone Trees. Apr. 2006, 578-79.

Relations among Powers of 2, Combinations, and Symbolic Algebra. Apr. 2006, 577–78.

Things Fall Apart: A Recurrence of Tiling. Sept. 2005, 134–39.

#### Communication

From Classroom Discussions to Group Discourse. Apr. 2006, 544–51.

Say What You Mean and Mean What You Say. Oct. 2005, 181–83.

# Connections/Applications

Biology as a Source for Algebra Equations: The Heart. Nov. 2005, 296–301.

Biology as a Source for Algebra Equations: Insects. Aug. 2005, 55–59.

Did You "Code"? Nov. 2005, 260-63.

Enhancing Meaning in Mathematics: Drawing on What Students Know about the Physical World. Oct. 2005, 162–69.

Goals for Achieving Diversity in Mathematics Classrooms. Nov. 2005, 253–59.

Grandfather Tang Goes to High School. March 2006, 522–26.

Making Quilts without Sewing: Investigating Planar Symmetries in Southern Quilts. Nov. 2005, 270–76.

Media Clips. Sept. 2005, 131–32; Oct. 2005, 178–80; Nov. 2005, 277–78; Dec. 2005/Jan. 2006, 362–64.

Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.

Quilt Blocks: Writing in the Geometry Classroom. Sept. 2005, 108–11.

Trigonometry Saves Engineer's Time. March 2006, 484–86.

#### Curriculum

Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. 2006, 406–13.

# **Discrete Mathematics**

How Do We Know That's the Minimum? Aug. 2005, 18-24.

#### Editorial

A Dialogue between Calculator and Algebra. Feb. 2006, 391–93.

Trade in Your Pendulum for a Personal Spacecraft. March 2006, 470–71.

## **Equity and Diversity**

Chinese Algebra: Using Historical Problems to Think About Current Curricula. Nov. 2005, 238–45.

Goals for Achieving Diversity in Mathematics Classrooms. Nov. 2005, 253–59.

A Hands-On Approach to Teaching Composition of Functions to a Diverse Population. March 2006, 516–20.

Math through the Mind's Eye. Nov. 2005, 246–50.

Projects, Nov. 2005, 304.

The Tellem Weavers Meet the Graphing Calculator. Nov. 2005, 230–36.

## **Exceptional Student**

Did You "Code"? Nov. 2005, 260-63.

### **Function**

A Hands-On Approach to Teaching Composition of Functions to a Diverse Population. March 2006, 516–20.

Helping Students Connect Functions and Their Representations. Oct. 2005, 156–60.

Teaching about Functions through Motion in Real Time. Feb. 2006, 430–37.

Understanding Functions without Using the Vertical Line Test. Sept. 2005, 96–100.

#### Games and Puzzles

An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.

#### Geometry (see also measurement)

The Angles between the Sides of a Quadrilateral and Its Diagonals. May 2006, 653–55.

Approximating Pi with the Golden Ratio. March 2006, 472–77.

Conic Sections: Draw It, Write It, Do It. Oct. 2005, 152–55.

Constructing Recursive Geometric Sketches. Feb. 2006, 442–45.

Discovering Relationships Involving Baravelle Spirals. Feb. 2006, 394–400.

An Engaging Puzzle to Explore Algebraic Generalizations. Apr. 2006, 532–36.

Geometry of Transformations: Teacher and Unit Under Construction. Sept. 2005, 88–92.

Grandfather Tang Goes to High School. March 2006, 522–26.

Hands-On Fractals and the Unexpected in Mathematics. Apr. 2006, 570-75.

Hands-On Perspective. Apr. 2006, 554–59.

Interactive Geometry Software in the B.C. (Before Computers) Era. Oct. 2005, 170–76.

Key Ideas and Insights in the Context of Three High School Geometry Proofs. May 2006, 644–49.

Linking Theory and Practice in Teaching Geometry. Aug. 2005, 27–30.

Making Quilts without Sewing: Investigating Planar Symmetries in Southern Ouilts, Nov. 2005, 270–76.

Mathematical Lens. Aug. 2005, 9–10; Sept. 2005, 93–94; Oct. 2005, 205–6; Feb. 2006, 459–60.

Multiple Solutions: More Paths to an End or More Opportunities to Learn Mathematics, Nov. 2005, 279–87.

Paper Moon: Simulating a Total Solar Eclipse. Dec. 2005/Jan. 2006, 312–20.

Partitioning the Interior of a Circle with Chords. Sept. 2005, 120–24.

Quilt Blocks: Writing in the Geometry Classroom. Sept. 2005, 108–11.

Rotations of the Regular Polyhedra. May 2006, 606-9.

Say What You Mean and Mean What You Say. Oct. 2005, 181-83.

A Study of Note Taking and Its Impact on Student Perception of Use in a Geometry Classroom. May 2006, 614–21.

Tapping into Trapezoids. Oct. 2005, 190–95.

Technology Tips. Feb. 2006, 442–45. Three by Three Systems: More than Just a Point. Feb. 2006, 419–23.

Trisecting the Circle: A Case for Euclidean Geometry. Feb. 2006, 414–18.

Understanding Conic Sections Using Alternate Graph Paper. Dec. 2005/Jan. 2006, 322–27.

#### History

Approximating Pi with the Golden Ratio. March 2006, 472–77. Technology Tips. Aug. 2005, 68–70.

#### Measurement

The Human Body's Built-In Range Finder: The Thumb Method of Indirect Distance Measurement. May 2006, 622–26.

Mathematical Lens. Dec. 2005/Jan. 2006, 355-56.

Media Clips. Feb. 2006, 438-41.

Using Similarity to Derive a Formula for the Distance from a Point to a Line. Aug. 2005, 61–62.

#### Modeling

Projects. Sept. 2005, 142.

# **Number System**

Finding Complex Roots: Can You Trust Your Calculator? Dec. 2005/Jan. 2006, 366–71.

#### **Number Theory**

How Does One Know if a Number Is Divisible by 17? March 2006, 502-5.

Phone Trees. Apr. 2006, 578-79.

Revisiting Fibonacci and Related Sequences. Dec. 2005/Jan. 2006, 357-61.

Simple Recurrence Relations, Proper Guessing, and Closed-Form Solutions. Nov. 2005, 292–95.

Teaching Logarithms Day One. Aug. 2005, 66–67.

Things Fall Apart: A Recurrence of Tiling. Sept. 2005, 134–39.

#### **Patterns**

Discovering Relationships Involving Baravelle Spirals. Feb. 2006, 394–400.

# **Probability**

Good Things Always Come in Threes: Three Cards, Three Prisoners, Three Doors. Feb. 2006, 401–5.

Is Central Park Warming? May 2006, 600-605.

Media Clips. Sept. 2005, 131–32; Oct. 2005, 178–80.

The Name Game: Exploring Random Permutations. Oct. 2005, 196–204.

The Three-Point Shoot-Out: The Logic of Hypothesis Testing. Apr. 2006, 582–87.

# **Problem Solving**

Calendar. Aug. 2005, 40–45; Sept. 2005, 112–18; Oct. 2005, 184–88; Nov. 2005, 264–68; Dec. 2005, Dec. 2005/Jan. 2006, 343, 346–51; Jan.

2006, Dec. 2005/Jan. 2006, 344–45, 352–54; Feb. 2006, 424–29; March 2006, 496–501; Apr. 2006, 560–65; May 2006, 632–36.

Mathematical Lens. Feb. 2006, 459–60; March 2006, 512–15; Apr. 2006, 552–53; May 2006, 611–12.

Media Clips. Feb. 2006, 438–41; March 2006, 487–88; Apr. 2006, 588–90; May 2006, 656–59.

Multiple Solutions: More Paths to an End or More Opportunities to Learn Mathematics. Nov. 2005, 279–87.

The Name Game: Exploring Random Permutations. Oct. 2005, 196–204.

Using Open-Ended Problems for Assessment. Aug. 2005, 12–17.

#### Reasoning

Advice for Solving Equations. Apr. 2006, 538-42.

How Do We Know That's the Minimum? Aug. 2005, 18-24.

Proofs That Students Can Do. March 2006, 478-82.

Using Similarity to Derive a Formula for the Distance from a Point to a Line. Aug. 2005, 61–62.

### Representation

Calculus Technique of Integration by Parts, Correlated with a Geometric Picture. Aug. 2005, 62–63.

Connecting Procedural and Conceptual Knowledge of Functions. Aug. 2005, 36–39.

A Hands-On Approach to Teaching Composition of Functions to a Diverse Population, March 2006, 516–20.

Media Clips. Dec. 2005/Jan. 2006, 362-64.

# Research

Enhancing Meaning in Mathematics: Drawing on What Students Know about the Physical World. Oct. 2005, 162-69

Goals for Achieving Diversity in Mathematics Classrooms. Nov. 2005, 253–59.

Good Things Always Come in Threes: Three Cards, Three Prisoners, Three Doors. Feb. 2006, 401–5.

A Study of Note Taking and Its Impact on Student Perception of Use in a Geometry Classroom. May 2006, 614–21.

## Spatial Sense

Rotations of the Regular Polyhedra. May 2006, 606–9.

# Statistics/Data Analysis

Data-Driven Mathematics Investigations on "Curved Data." Aug. 2005, 46–54.

Is Central Park Warming? May 2006, 600-605.

Mathematical Lens. Aug. 2005, 9-10.Media Clips. Aug. 2005, 32-35; Nov. 2005, 277-78; Feb. 2006, 438-41.

Teaching Logarithms Day One. Aug. 2005, 66–67.

The Three-Point Shoot-Out: The Logic of Hypothesis Testing. Apr. 2006, 582–87.

Transformations on Data Sets and Their Effects on Descriptive Statistics. Oct. 2005, 208–13.

Using Statistics to Check on Elvis. Dec. 2005/Jan. 2006, 372–77.

#### Teachers

Trisecting the Circle: A Case for Euclidean Geometry. Feb. 2006, 414–18.

#### Teaching

Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum. Feb. '2006, 406–13.

Geometry of Transformations: Teacher and Unit Under Construction, Sept. 2005, 88–92.

Hands-On Fractals and the Unexpected in Mathematics. Apr. 2006, 570-75.

Helping Students Connect Functions and Their Representations. Oct. 2005, 156-00.

Is Central Park Warming? May 2006, 600-605.

Linking Theory and Practice in Teaching Geometry. Aug. 2005, 27–30.

The Matrix Connection: Fibonacci and Inductive Proof. Dec. 2005/Jan. 2006, 328–33.

A Natural Bridge from Algebra and Geometry to Trigonometry. Feb. 2006, 450–58.

Projects, Nov. 2005, 304.

#### Technology

Constructing Recursive Geometric Sketches. Feb. 2006, 442–45.

A Dialogue between Calculator and Algebra. Feb. 2006, 391-93.

Finding Complex Roots: Can You Trust

Your Calculator? Dec. 2005/Jan. 2006, 366-71.

Good Will Hunting Meets Graphing Calculators and CAS. Oct. 2005, 218-22.

**Introducing Parametric Equations** through Graphing Calculator Explorations. May 2006, 637-43.

Key Ideas and Insights in the Context of Three High School Geometry Proofs. May 2006, 644-49.

The Matrix Connection: Fibonacci and Inductive Proof. Dec. 2005/Jan. 2006,

Non-Geometry Mathematics and The Geometer's Sketchpad. March 2006. 490-95.

Sliders and Parameters Extend Interactive Software, May 2006, 627-31.

Teaching about Functions through Motion in Real Time. Feb. 2006, 430-37.

Teaching Logarithms Day One. Aug. 2005, 66-67.

Technology Tips. Aug. 2005, 68-70; Sept. 2005, 126-30; Nov. 2005, 288-91; Dec. 2005/Jan. 2006, 340-42; Feb. 2006, 442-45.

The Tellem Weavers Meet the Graphing Calculator, Nov. 2005, 230-36.

Trigonometry Saves Engineer's Time. March 2006, 484-86.

Two Useful Functions for Excel Grade Books. Apr. 2006, 566-69.

Using the Dynamic Power of Microsoft Excel to Stand on the Shoulders of Giants. Dec. 2005/Jan. 2006, 334-39.

The Where, Why, and How of Solving  $a^x = \log_a x$ . May 2006, 651–53.

# Trigonometry

The Angles between the Sides of a Quadrilateral and Its Diagonals. May 2006, 717-19.

**Introducing Parametric Equations** through Graphing Calculator Explorations, May 2006, 701-7.

Mathematical Lens. Sept. 2005, 93-94; Nov. 2005, 251-52.

A Natural Bridge from Algebra and Geometry to Trigonometry. Feb. 2006, 450-58.

Trigonometry Saves Engineer's Time. March 2006, 484-86.



# Unable to Find Your Favorite Article from the Mathematics Teacher? LOOK ON THE WEB!



We now have the vearly index of articles published in the journal dating back to 1986. This index will be updated yearly. Visit the Web and search for articles that you are interested in using. The Mathematics Teacher index is located at http://www.nctm.org/ mt/mt-indexes.htm.

# GUIDE TO

duvertisers
Aleks636
Casio Inside front cover, 613
Distance Education631
edHelper.com605
Harvard University Press 649
Mackichan Software 662
Math Essentials
MathType by Design Scienceoutside back cover
Pearson/Prentice Hall 599
Rethinking Schools 665
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

Professional Development ..... 636, inside back cover